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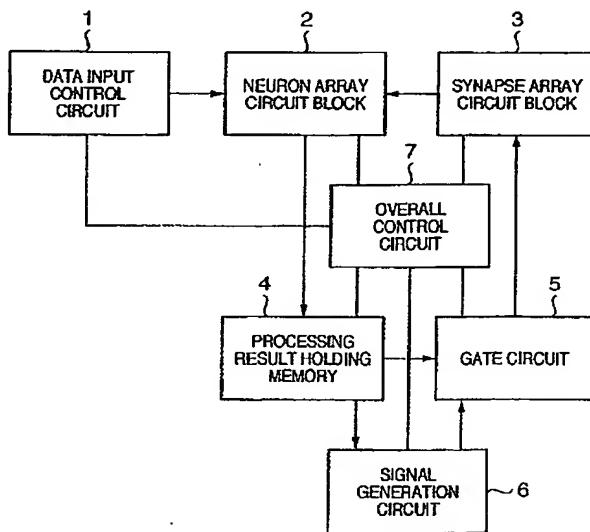
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(54) Title: PARALLEL PULSE SIGNAL PROCESSING APPARATUS, PATTERN RECOGNITION APPARATUS, AND IMAGE INPUT APPARATUS ✓



(57) Abstract: In a parallel pulse signal processing apparatus including a plurality of pulse output arithmetic elements (2), a plurality of connection elements (3) which parallelly connect predetermined arithmetic elements, and a gate circuit (5) which selectively passes pulse signals from the plurality of connection elements, the arithmetic element inputs a plurality of time series pulse signals, executes predetermined modulation processing on the basis of the plurality of time series pulse signals which are input, and outputs a pulse signal on the basis of a result of modulation processing, wherein the gate circuit selectively passes, of the signals from the plurality of connection elements, a finite number of pulse signals corresponding to predetermined upper output levels.

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